QC ABSTRACT

NAME OF WORK: Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*100*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	RCC(M20)	Compressive Strength(7days and 28days)	5 Sets	8.74	10	10
8	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
9	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
10	Cement Concrete Designer Tiles	Water Absorption	One Test		1	1
		Wet Transverse Strength	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 21-02-22

Lab ID	:	CP-2022-05-13-07
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore
Project Name	:	Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division
Agency	:	Sri.S Narayana Rao, S/o S Sadashivamurthy, 597/60, B Narayanappa Compound N Nagehalli, Bangalore-77.
Customer's Reference	:	BBMP/EE/BTP/WO/190/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	19-02-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements

Note:

The results pertain to the samples received and tested

All information furnished by Customer Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 19-03-22

Lab ID	:	CP-2022-05-13-07
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division
Agency	:	Sri.S Narayana Rao, S/o S Sadashivamurthy, 597/60, B Narayanappa Compound N Nagehalli, Bangalore-77.
Customer's Reference	:	BBMP/EE/BTP/WO/190/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	19-02-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-05-13-07**	**Date: 21-02-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division	
Agency	:	Sri.S Narayana Rao, S/o S Sadashivamurthy, 597/60, B Narayanappa Compound N Nagehalli, Bangalore-77.	
Customer's Reference	:	BBMP/EE/BTP/WO/190/2020-21	
Source of Sample	:	Sample supplied by Agency	
Sample condition	:	Satisfactory	
Date of Receipt	:	18-02-22	
Sample Type	:	40mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties	
Date of test	:	18-02-22	

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	5433	5678	37.9	62.1	30-70
4	10 mm	4331	10009	66.7	33.3	10-35
5	4.75 mm	4657	14666	97.8	2.2	0-5
6	Pan	334	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-05-13-07** **Date: 21-02-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.22	–

* The results obtained are satisfactory as per standard requirements.

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2022-05-13-07 Date: 21-02-22
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division
Agency	:	Sri.S Narayana Rao, S/o S Sadashivamurthy, 597/60, B Narayanappa Compound N Nagehalli, Bangalore-77.
Customer Reference	:	BBMP/EE/BTP/WO/190/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-02-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	241	241	4.8	95.2	90-100
3	10 mm	2562	2803	56.1	43.9	25-55
4	4.75 mm	2035	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-05-13-07 Date: 21-02-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface.

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Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2022-05-13-07 **Date: 21-02-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division
Agency	:	Sri.S Narayana Rao, S/o S Sadashivamurthy, 597/60, B Narayanappa Compound N Nagehalli, Bangalore-77.
Customer's Reference	:	BBMP/EE/BTP/WO/190/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-22
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	18-02-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	53	74	7.4	92.6	60-95	75-100	85-100	95-100
4	1.18 mm	225	299	29.9	70.1	30-70	55-90	75-100	90-100
5	600 micron	201	500	50.0	50.0	15-34	35-59	60-79	80-100
6	300 micron	208	708	70.8	29.2	5-20	8-30	12-40	15-50
7	150 micron	192	900	90.0	10.0	0-10	0-10	0-10	0-15
8	Pan	100	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-05-13-07**

Date: 21-02-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.25	–
2	Specific Gravity	2.52	–
3	Material finer than 75 micron(%)	9.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST RESULTS OF STEEL

Date: 21-02-22

Lab ID	:	CP-2022-05-13-07
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division
Agency	:	Sri.S Narayana Rao, S/o S Sadashivamurthy, 597/60, B Narayanappa Compound N Nagehalli, Bangalore-77.
Customer's Reference	:	BBMP/EE/BTP/WO/190/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-22
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	19-02-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/03/2022

Lab ID	:	CP-2022-05-13-07
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division
Agency	:	Sri.S Narayana Rao, S/o S Sadashivamurthy, 597/60, B Narayanappa Compound N Nagehalli, Bangalore-77.
Customer's Reference	:	BBMP/EE/BTP/WO/190/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-22
Customer ID	:	Column Footing
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Footing	M20	23/02/2022	02/03/2022	150.29 X 151.50 X 149.44	22770	8.959	418.1	18.4	18.6
2	Column Footing	M20	23/02/2022	02/03/2022	151.59 X 150.52 X 149.80	22817	8.197	432.4	18.9	
3	Column Footing	M20	23/02/2022	02/03/2022	150.48 X 151.98 X 149.96	22870	8.451	420.2	18.4	

* The results obtained are satisfactory as per standard requirements.

Note:

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/03/2022

Lab ID	:	CP-2022-05-13-07
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division
Agency	:	Sri.S Narayana Rao, S/o S Sadashivamurthy, 597/60, B Narayanappa Compound N Nagehalli, Bangalore-77.
Customer's Reference	:	BBMP/EE/BTP/WO/190/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-22
Customer ID	:	Column Footing
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Footing	M20	23/02/2022	23/03/2022	149.96 X 149.68 X 149.33	22446	8.414	536.0	23.9	23.4
2	Column Footing	M20	23/02/2022	23/03/2022	149.47 X 150.33 X 150.00	22469	8.672	515.1	22.9	
3	Column Footing	M20	23/02/2022	23/03/2022	149.36 X 149.78 X 151.28	22370	8.660	526.5	23.5	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/03/2022

Lab ID	:	CP-2022-05-13-07
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division
Agency	:	Sri.S Narayana Rao, S/o S Sadashivamurthy, 597/60, B Narayanappa Compound N Nagehalli, Bangalore-77.
Customer's Reference	:	BBMP/EE/BTP/WO/190/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-02-22
Customer ID	:	Plinth Beam
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam	M20	26/02/2022	05/03/2022	151.06 X 149.07 X 149.75	22518	8.857	411.9	18.3	18.5
2	Plinth Beam	M20	26/02/2022	05/03/2022	149.66 X 150.56 X 150.47	22533	8.591	423.5	18.8	
3	Plinth Beam	M20	26/02/2022	05/03/2022	151.88 X 149.13 X 151.71	22650	9.022	419.6	18.5	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/03/2022

Lab ID	:	CP-2022-05-13-07
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division
Agency	:	Sri.S Narayana Rao, S/o S Sadashivamurthy, 597/60, B Narayanappa Compound N Nagehalli, Bangalore-77.
Customer's Reference	:	BBMP/EE/BTP/WO/190/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-02-22
Customer ID	:	Plinth Beam
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam	M20	26/02/2022	26/03/2022	150.26 X 150.06 X 150.64	22548	9.070	531.0	23.5	23.2
2	Plinth Beam	M20	26/02/2022	26/03/2022	150.28 X 151.35 X 149.44	22746	8.378	512.8	22.5	
3	Plinth Beam	M20	26/02/2022	26/03/2022	151.57 X 150.08 X 149.26	22748	8.471	533.3	23.4	

* The results obtained are satisfactory as per standard requirements.

Note:
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/03/2022

Lab ID	:	CP-2022-05-13-07
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division
Agency	:	Sri.S Narayana Rao, S/o S Sadashivamurthy, 597/60, B Narayanappa Compound N Nagehalli, Bangalore-77.
Customer's Reference	:	BBMP/EE/BTP/WO/190/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-03-22
Customer ID	:	Column Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	04/03/2022	11/03/2022	150.76 X 149.31 X 151.41	22511	8.282	407.3	18.1	18.4
2	Column Concrete	M20	04/03/2022	11/03/2022	151.92 X 150.08 X 149.58	22801	8.883	427.8	18.8	
3	Column Concrete	M20	04/03/2022	11/03/2022	151.16 X 151.47 X 151.80	22897	8.826	423.4	18.5	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/04/2022

Lab ID	:	CP-2022-05-13-07
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division
Agency	:	Sri.S Narayana Rao, S/o S Sadashivamurthy, 597/60, B Narayanappa Compound N Nagehalli, Bangalore-77.
Customer's Reference	:	BBMP/EE/BTP/WO/190/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-03-22
Customer ID	:	Column Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	04/03/2022	01/04/2022	149.34 X 151.25 X 149.10	22588	8.681	534.2	23.6	23.4
2	Column Concrete	M20	04/03/2022	01/04/2022	149.11 X 152.00 X 151.41	22665	8.483	515.7	22.8	
3	Column Concrete	M20	04/03/2022	01/04/2022	150.66 X 149.07 X 149.95	22459	8.461	532.9	23.7	

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-05-13-07 **Date: 17/03/2022**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division

Agency : Sri.S Narayana Rao, S/o S Sadashivamurthy, 597/60, B Narayanappa Compound N Nagehalli, Bangalore-77.

Customer's Reference : BBMP/EE/BTP/WO/190/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-03-22

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	10/03/2022	17/03/2022	149.15 X 150.53 X 149.01	22450	8.112	408.7	18.2	18.3
2	Lintel Concrete	M20	10/03/2022	17/03/2022	150.25 X 150.03 X 150.91	22542	8.623	406.9	18.1	
3	Lintel Concrete	M20	10/03/2022	17/03/2022	149.36 X 151.65 X 150.89	22650	8.466	424.2	18.7	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/04/2022

Lab ID	:	CP-2022-05-13-07
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division
Agency	:	Sri.S Narayana Rao, S/o S Sadashivamurthy, 597/60, B Narayanappa Compound N Nagehalli, Bangalore-77.
Customer's Reference	:	BBMP/EE/BTP/WO/190/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-03-22
Customer ID	:	Lintel Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	10/03/2022	07/04/2022	150.48 X 149.69 X 150.32	22525	8.194	527.5	23.4	23.2
2	Lintel Concrete	M20	10/03/2022	07/04/2022	149.98 X 151.65 X 151.34	22746	8.118	514.3	22.6	
3	Lintel Concrete	M20	10/03/2022	07/04/2022	149.34 X 150.90 X 151.41	22535	8.409	531.6	23.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/03/2022

Lab ID	:	CP-2022-05-13-07
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division
Agency	:	Sri.S Narayana Rao, S/o S Sadashivamurthy, 597/60, B Narayanappa Compound N Nagehalli, Bangalore-77.
Customer's Reference	:	BBMP/EE/BTP/WO/190/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-03-22
Customer ID	:	Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Slab Concrete	M20	14/03/2022	21/03/2022	151.53 X 151.01 X 149.03	22883	9.078	434.6	19.0	18.6
2	Slab Concrete	M20	14/03/2022	21/03/2022	151.97 X 151.23 X 151.41	22982	8.802	427.2	18.6	
3	Slab Concrete	M20	14/03/2022	21/03/2022	149.78 X 149.14 X 150.06	22339	8.485	408.7	18.3	

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Quality Manager

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯ ನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು

****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/04/2022

Lab ID	:	CP-2022-05-13-07
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division
Agency	:	Sri.S Narayana Rao, S/o S Sadashivamurthy, 597/60, B Narayanappa Compound N Nagehalli, Bangalore-77.
Customer's Reference	:	BBMP/EE/BTP/WO/190/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-03-22
Customer ID	:	Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Slab Concrete	M20	14/03/2022	11/04/2022	150.42 X 151.54 X 149.66	22795	8.998	540.9	23.7	23.3
2	Slab Concrete	M20	14/03/2022	11/04/2022	150.15 X 149.81 X 149.26	22493	8.601	512.9	22.8	
3	Slab Concrete	M20	14/03/2022	11/04/2022	151.04 X 150.08 X 151.00	22668	9.023	527.4	23.3	

* The results obtained are satisfactory as per standard requirements.

Note:

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Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2022-05-13-07** **Date: 27-03-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division
Agency	:	Sri.S Narayana Rao, S/o S Sadashivamurthy, 597/60, B Narayanappa Compound N Nagehalli, Bangalore-77.
Customer's Reference	:	BBMP/EE/BTP/WO/190/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-03-22
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	24-03-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2022-05-13-07** **Date: 27-03-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT FOR PLASTER SAND

Lab ID	:	**CP-2022-05-13-07** **Date: 28-03-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division
Agency	:	Sri.S Narayana Rao, S/o S Sadashivamurthy, 597/60, B Narayanappa Compound N Nagehalli, Bangalore-77.
Customer's Reference	:	BBMP/EE/BTP/WO/190/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-03-22
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (RA 2019) (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	24-03-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-05-13-07** **Date: 28-03-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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CEMENT CONCRETE FLOORING TILES

Lab ID	:	**CP-2022-05-13-07** **Date: 30-03-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division
Agency	:	Sri.S Narayana Rao, S/o S Sadashivamurthy, 597/60, B Narayanappa Compound N Nagehalli, Bangalore-77.
Customer Reference	:	BBMP/EE/BTP/WO/190/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-03-22
Sample Type	:	Pre-Polished Designer Cement Concrete Tiles
Reference to BIS codes	:	IS 1237:2012 (RA 2017)
Date of test	:	25-03-22

1. Water Absorption

Sl.No.	Measured Dimension (mm)			Water Absorption (%)	Average (%)	Requirement as per IS:1237-2012
	L	B	T			
1	400	399	25.09	2.530	2.21	The average percentage of water absorption shall not exceed 10.
2	401	401	25.05	1.920		
3	400	401	25.11	2.170		
4	400	399	25.06	2.060		
5	399	400	25.17	1.800		
6	400	400	25.13	2.760		

2.Wet Transverse Strength

Sl.No.	Measured Dimension (mm)			Wet Transverse Strength (N/mm^2)	Average (N/mm^2)	Requirement as per IS:1237-2012
	L	B	T			
1	401	401	25.02	7.83	7.8	The average wet transverse strength shall not be less than $3N/mm^2$.
2	401	401	25.04	8.16		
3	400	399	25.06	7.51		
4	399	401	25.01	7.88		
5	400	400	25.05	8.25		
6	401	399	25.03	7.29		

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 02-03-22

Lab ID	:	CP-2022-05-13-07
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division
Agency	:	Sri.S Narayana Rao, S/o S Sadashivamurthy, 597/60, B Narayanappa Compound N Nagehalli, Bangalore-77.
Customer's Reference	:	BBMP/EE/BTP/WO/190/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-22
Sample Type/Size	:	Solid concrete blocks size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	25-02-22

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	405	100	203	8222	17.329	2107.7	2107.3	Not less than 1800Kg/m^3
2	403	99	200	7979	17.395	2179.9		
3	404	98	200	7918	16.107	2034.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	18.91	17.99	4.89	4.25	Shall not be more than 10% by mass
2	19.57	18.74	4.28		
3	18.94	18.26	3.59		

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DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	100	199	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	403	101	199	
3	402	102	200	
4	401	100	200	
5	402	102	203	
6	400	102	203	
7	402	101	201	
8	400	102	202	
9	401	100	200	
10	401	100	199	
11	403	101	203	
12	402	100	203	
13	401	102	199	
14	402	100	203	
15	402	103	203	
16	401	101	202	
17	401	100	200	
18	401	103	201	
19	403	99	203	
20	401	102	202	
Average of 20	**402**	**101**	**201**	

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COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	100	39913	156.0	3.9	3.9
2	403	101	40889	168.1	4.1	
3	402	102	41059	152.3	3.7	
4	401	100	40202	152.3	3.8	
5	402	102	40895	161.3	3.9	
6	400	102	40832	167.6	4.1	
7	402	101	40749	158.6	3.9	
8	400	102	40933	155.1	3.8	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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